Antonsson Serial No. 09/839,609

REMARKS

Claim 1 is amended so as to define n as 2. Claim 3 has accordingly been canceled without prejudice.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached pages are captioned "Version With Markings To Show Changes Made."

Action on this application is awaited.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION

Page 1, line 1, please amend the first paragraph to read as follows:

This application is a <u>continuation</u> of application Serial No. 08/894,833, filed August 29, 1997, <u>which is a 371 of PCT/SE97/01150</u>, filed June 26, 1997, the entire content of which is hereby incorporated by reference in this application.

IN THE CLAIMS

1. (Amended) A compound of formula I,

wherein

one of ${\sf R}^1$ and ${\sf R}^2$ represents a structural fragment of formula la

and the other represents R4;

Z represents O or N(R⁵);

 R^3 represents one or more optional substituents selected from OH, halo, cyano, nitro, $C(O)OR^6$, $C_{1.6}$ alkoxy or $C_{1.6}$ alkyl (which two latter groups are optionally substituted and/or terminated by one or more halo or hydroxy group) or $N(R^7)R^8$;

 R^4 represents H, OH, halo, cyano, nitro, C(O)OR⁶, $C_{1.6}$ alkoxy or $C_{1.6}$ alkyl (which two latter groups are optionally substituted and/or terminated by one or more halo or hydroxy group) or N(R^7) R^8 ;

Ar¹ represents phenyl, $C_{1\cdot3}$ alkylphenyl, $C_{1\cdot3}$ alkyldiphenyl, $C_{3\cdot7}$ cycloalkyl, $C_{1\cdot3}$ -alkyl- $C_{3\cdot7}$ -cycloalkyl, naphthyl, $C_{1\cdot3}$ alkylnaphthyl, thienyl, imidazolyl or isoxazolyl, all of which may be substituted by one or more substituent selected from OH, halo, cyano, nitro, $C(O)OR^6$, $C_{1\cdot6}$ alkoxy or $C_{1\cdot6}$ alkyl (which two latter groups are optionally substituted and/or terminated by one or more halo or hydroxy group) or $N(R^7)R^8$;

 R^5 represents H, $C_{1.6}$ alkyl, phenyl or $C_{1.3}$ alkylphenyl (which three latter groups are optionally substituted and/or terminated by one or more substituent

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selected from OH, halo, cyano, nitro, $C(O)OR^9$, $C(O)N(R^{10})R^{11}$, $P(O)(R^{12})R^{13}$, $P(O)(OR^{14})OR^{15}$, $S(O)_2(R^{16})R^{17}$, $S(O)_2N(R^{18})R^{19}$, $C_{1.6}$ alkoxy or $C_{1.6}$ alkyl (which two latter groups are optionally substituted and/or terminated by one or more halo or hydroxy group) or $N(R^{20})R^{21}$);

Y represents O, S, S(O), S(O)₂ or $N(R^{22})$;

 R^{10} and R^{11} independently represent H, OR^{23} , $C(O)R^{24}$, $OC(O)R^{25}$, $C(O)OR^{26}$, $C_{1\cdot4}$ alkyl, (which latter group is optionally substituted and/or terminated by one or more substituent selected from $C_{1\cdot4}$ alkyl, OR^{27} , $N(R^{28})R^{29}$, $C(O)OR^{30}$, $C(O)N(R^{31})R^{32}$, $P(O)(R^{33})R^{34}$, $P(O)(OR^{35})OR^{36}$ and $S(O)_2N(R^{37})R^{38}$), $-(CH_2CH_2O\cdot)_pR^{39}$ or, together with the nitrogen atom to which they are attached, form a $C_{4\cdot7}$ nitrogen-containing, aromatic or non-aromatic, ring which ring may contain a further heteroatom or group (as appropriate) selected from O, S and $N(R^{40})$ and may further be substituted by one or more substituent selected from $C(O)R^{41}$, $C(O)OR^{42}$ or $C(O)N(R^{43})R^{44}$:

 R^{28} , R^{29} , R^{30} , R^{31} , R^{32} and R^{40} independently represent H or $C_{1.6}$ alkyl, which latter group is optionally substituted and/or terminated by one or more substituent selected from $C(0)R^{45}$, $C(0)OR^{46}$ or $C(0)N(R^{47})R^{48}$;

at each [occurance] <u>occurrence</u>, R^6 , R^7 and R^8 independently represent H or $C_{1.4}$ alkyl;

 R^{9} , R^{12} , R^{13} , R^{14} , R^{15} , R^{16} , R^{17} , R^{18} , R^{19} , R^{20} , R^{21} , R^{22} , R^{23} , R^{24} , R^{25} , R^{26} , R^{27} , R^{33} , R^{34} , R^{35} , R^{36} , R^{37} , R^{38} , R^{39} , R^{41} , R^{42} , R^{43} , R^{44} , R^{45} , R^{46} , R^{47} and R^{48} independently represent H or $C_{1\cdot4}$ alkyl;

n represents [0, 1,] 2[, 3 or 4];

p represents 1, 2, 3, 4, 5 or 6; and

B represents a structural fragment of formula lb, lc, ld or le

wherein

 ${\rm X^1}$ and ${\rm X^2}$ independently represent a single bond or CH₂; or a pharmaceutically acceptable salt thereof.

4. (Amended) A compound of formula I, as defined in [any one of the preceding claims] claim 1, wherein R^2 represents a structural fragment of formula Ia and R^1 represents R^4 .

- 5. (Amended) A compound of formula I, as defined in [any one of the preceding claims] claim 1, wherein Z represents O or $N(R^5)$, in which latter case R^5 represents $C_{1.6}$ alkyl terminated by $C(O)N(R^{10})R^{11}$.
- 6. (Amended) A compound of formula I, as defined in [any one of the preceding claims] <u>claim 1</u>, wherein R³ is not present, or represents methyl, chloro or methoxy.
- 7. (Amended) A compound of formula I, as defined in [any one of the preceding claims] claim 1, wherein Ar¹ represents substituted phenyl.
- 8. A compound of formula I, as defined in [any one of the preceding claims] claim 1 wherein Y represents O.
- 9. A compound of formula I, as defined in [any one of the preceding claims] claim 1 wherein B represents a structural fragment of formula lb.
- 23. (Amended) A pharmaceutical formulation including a compound as defined in [any one of Claims 1 to 22] <u>claim 1</u>, or a pharmaceutically acceptable salt thereof, in admixture with a pharmaceutically acceptable adjuvant, diluent or carrier.

- 24. (Amended) A compound as defined in [any one of Claims 1 to 22] claim 1, or a pharmaceutically acceptable salt thereof, for use as a pharmaceutical.
- 25. (Amended) A compound as defined in [any one of Claims 1 to 22] claim 1, or a pharmaceutically acceptable salt thereof, for use in the treatment of a condition where inhibition of thrombin is required.
- 26. (Amended) A compound as defined in [any one of Claims 1 to 22] claim 1, or a pharmaceutically acceptable salt thereof, for use in the treatment of thrombosis.
- 27. (Amended) A compound of formula I as defined in [any one of Claims 1 to 22] <u>claim 1</u>, or a pharmaceutically acceptable salt thereof, for use as an anticoagulant.
- 28. (Amended) The use of a compound I as defined in [any one of Claims 1 to 22] <u>claim 1</u>, or a pharmaceutically acceptable salt thereof as active ingredient in the manufacture of a medicament for the treatment of a condition where inhibition of thrombin is required.

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- 30. (Amended) The use of a compound <u>as</u> defined in [any one of Claims 1 to 22] <u>claim 1</u>, or a pharmaceutically acceptable salt thereof, as active ingredient in the manufacture of an anticoagulant.
- 31. (Amended) A method of treatment of a condition where inhibition of thrombin is required which method comprises administration of a therapeutically effective amount of a compound as defined in [any one of Claims 1 to 22] claim 1, or a pharmaceutically acceptable salt thereof, to a person suffering from, or susceptible to, such a condition.